

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To: John A Dragseth
Fish & Richardson PC
PO Box 1022
Minneapolis, MN 55440-1022

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing
(day/month/year)

11 FEB 2008

Applicant's or agent's file reference
16113-011WO1

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/US 06/26152

International filing date
(day/month/year) 30 June 2006 (30.06.2006)

Applicant
Google Inc

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450
Facsimile No. 571-273-3201

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 16113-011WO1	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US 06/26152	International filing date (day/month/year) 30 June 2006 (30.06.2006)	(Earliest) Priority Date (day/month/year) 30 June 2005 (30.06.2005)
Applicant Google Inc		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No. III)

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant
☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 3
☒ as suggested by the applicant
☐ as selected by this Authority, because the applicant failed to suggest a figure
☐ as selected by this Authority, because this figure better characterizes the invention
 b. ☐ none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/26152

A. CLASSIFICATION OF SUBJECT MATTER

IPC (8): G06F 3/00 (2007.01) USPC: 715/700

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC (8): G06F 3/00 (2007.01) USPC: 715/700

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
715/531, 532; 707/101

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWest (USPT, PG, PB, EPAB, JPAB); DialogPRO (Engineering); Google Scholar

Search Terms Used: dictionary data, data entry, text entry, location information, assistance

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/0054830 A1 (WILLIAMS et al.) 20 March 2003 (20.03.2003), entire document, especially para [0008] - [0037]	1-36

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

08 July 2007 (08.07.2007)

Date of mailing of the international search report

11 FEB 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents

P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300

PCT OSP: 571-272-7774

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To: John A Dragseth
Fish & Richardson PC
PO Box 1022
Minneapolis, MN 55440-1022

Date of mailing
(day/month/year) **11 FEB 2008**

Applicant's or agent's file reference
16113-011WO1

FOR FURTHER ACTION

See paragraph 2 below

International application No.
PCT/US 06/26152

International filing date (day/month/year)
30 June 2006 (30.06.2006)

Priority date (day/month/year)
30 June 2005 (30.06.2005)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/00 (2007.01)
USPC - 715/700

Applicant **Google Inc**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450
Facsimile No. 571-273-3201

Date of completion of this opinion
08 July 2007 (08.07.2007)

Authorized officer:
Lee W. Young

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 06/26152

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:
☒ the international application in the language in which it was filed
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ on paper
☐ in electronic form
 - c. time of filing/furnishing
☐ contained in the international application as filed
☐ filed together with the international application in electronic form
☐ furnished subsequently to this Authority for the purposes of search
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US 06/26152

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	None	YES
	Claims	1-36	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-36	NO
Industrial applicability (IA)	Claims	1-36	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-36 lack novelty under PCT Article 33(2) as being anticipated by US 2003/0054830 A1 to Williams et al. (hereinafter 'Williams')

As for Claims 1 and 18, Williams teaches a computer-implemented method of providing text entry assistance data, comprising: receiving at a system location information associated with a user (para [0008]); receiving at the system information indicative of predictive textual outcomes (para [0031]); generating dictionary data using the location information (para [0034]); providing the dictionary data to a remote device (para [0034]); and a response formatter to receive information responsive to the data requests including predictive data entry information, and provide the information responsive to the data requests for use by the one or more clients (para [0033]).

As for Claim 2, Williams teaches the method of claim 1, wherein the received information indicative of predictive textual outcomes relates to search requests made by a plurality of remote searchers (para [0033]).

As for Claim 3, Williams teaches the method of claim 1, wherein the dictionary data comprises a plurality of terms with a corresponding plurality of predictive weightings (para [0031] and [0033]).

As for Claim 4, Williams teaches the method of claim 1, further comprising generating dictionary data using the information indicative of predictive textual outcomes (para [0031]).

As for Claim 5, Williams teaches the method of claim 1, wherein providing the dictionary data to the remote device comprises transmitting the data to a mobile phone (para [0025]).

As for Claim 6, Williams teaches the method of claim 2, further comprising receiving user preferences that are used in searching based on the search requests (para [0033]).

As for Claim 7, Williams teaches the method of claim 1, wherein generating the dictionary data comprises producing data related to the information indicative of the user location (para [0036]).

As for Claim 8, Williams teaches the method of claim 7, wherein the generated dictionary data is associated with places near the user location (para [0036]).

As for Claim 9, Williams teaches the method of claim 7, wherein the generated dictionary data is associated with common query data from users near the user location (para [0033]).

As for Claim 10, Williams teaches the method of claim 1, wherein the dictionary data is provided to the remote device in response to a request from the remote device (para [0033]).

As for Claim 11, Williams teaches the method of claim 10, wherein the request comprises a search request, and the dictionary data is provided along with results to the search request (para [0034]).

As for Claim 12, Williams teaches the method of claim 1, further comprising compressing the dictionary data before providing it to the remote device (para [0033]).

As for Claim 13, Williams teaches the method of claim 1, wherein the dictionary data comprises supplemental data for addition to a preexisting dictionary (para [0034]).

As for Claim 14, Williams teaches the method of claim 1, further comprising receiving a search request, generating a search result, and providing the search result along with the dictionary data (para [0034]).

--(Continued in Supplemental Box)--

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US 06/26152

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Box V, 2. Citations and explanations:

As for Claim 15, Williams teaches the method of claim 14, wherein the dictionary data comprises data from documents relating to the search result (para [0034]).

As for Claim 16, Williams teaches the method of claim 1, wherein the dictionary data includes data corresponding to one or more areas in a proximity of the user location (para [0034]).

As for Claim 17, Williams teaches the method of claim 16, wherein the data corresponding to one or more areas in the proximity of the user location comprises location names (para [0034]).

As for Claim 19, Williams teaches the system of claim 18, further wherein the request processor is operable to receive information indicative of a user location (para [0035]).

As for Claim 20, Williams teaches the system of claim 18, wherein the local search engine is operable to extract information indicative of a user location from the data requests (para [0037]).

As for Claim 21, Williams teaches the system of claim 18, wherein the dictionary generator comprises a concurrence rater that calculates predicted concurrence scores for a plurality of objects (para [0033]).

As for Claim 22, Williams teaches the system of claim 21, wherein the plurality of objects comprises a plurality of terms that may be entered by a user in generating a data request (para [0033]).

As for Claim 23, Williams teaches the system of claim 21, further comprising an object selector to identify objects in a document for submission to the concurrence rater (para [0033]).

As for Claim 24, Williams teaches the system of claim 18, wherein the local search engine is operable to receive a plurality of requests and information indicative of a user location and provides the requests for transmission by the response formatter along with predictive data entry information (para [0029]).

As for Claim 25, Williams teaches the system of claim 18, wherein the information for use by the one or more clients includes data corresponding to one or more areas in the proximity of the user location (para [0034]).

As for Claim 26, Williams teaches the system of claim 25, wherein the data corresponding to one or more areas in the proximity of the user location comprises location names (para [0034]).

As for Claim 27, Williams teaches a computer-implemented system for providing information indicative of probable usage of objects by the user of a data entry device, comprising:
means for providing documents associated with a user location and indicative of usage by a user or users (para [0033]);
a concurrence rater to analyze the documents for usage data of objects in the documents and to generate associated concurrence ratings (para [0033]); and
an interface to transmit the concurrence ratings to a data entry device (para [0033]).

As for Claim 28, Williams teaches the system of claim 27, wherein the concurrence rater further analyzes the documents for location data of the objects and generates concurrence ratings (para [0033]).

As for Claim 29, Williams teaches the system of claim 28, wherein the concurrence ratings are at least partially based on how far a location associated with the location data of the object is from the user location (para [0034][0031]).

As for Claim 30, Williams teaches the system of claim 27, wherein the concurrence ratings are at least partially based on preferences of a user (para [0033]).

As for Claim 31, Williams teaches a communication device, comprising:
a transceiver to receive and transmit information, wherein the transmitted information includes information indicative of a user location (para [0025]);
a vocabulary repository containing information indicative of the probable intended usage of ambiguous information entered by a user of the device, the occurrence data reflecting an association of the user location with the information indicative of the probable intended usage (para [0033]); and a disambiguation engine to resolve the ambiguous information provided to the device to a probable solution by identifying possible solutions and to apply the information indicative of probable intended usage to the possible solutions (para [0031]).

—(Continued in Supplemental Box)—

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 06/26152

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Box V, 2. Citations and explanations:

As for Claim 32, Williams teaches the device of claim 31, further comprising a positioning system used to obtain the information indicative of the user location (para [0025]).

As for Claim 33, Williams teaches the device of claim 31, wherein a user inputs the information indicative of the user location (para [0031]).

As for Claim 34, Williams teaches the device of claim 31, wherein preferences of a user determine what information is contained in the vocabulary repository (para [0033]).

As for Claim 35, Williams teaches the device of claim 31, wherein the indicative information associated with the occurrence data is eliminated from the vocabulary repository when the occurrence data reaches a certain threshold (para [0033]).

As for Claim 36, Williams teaches the communication device of claim 31, wherein the occurrence data contains data that represents usage practices by members of a demographic group (para [0033]).

Claims 1-36 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended ?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When ? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments ?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How ? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments ?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.